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Measure Information Template

*California Building Energy Efficiency Standards
Revisions for July 2003 Adoption*

Cardinal Glass Industries

Proposed Measure: Improved Cost-Effective Prescriptive Values

November 5, 2001

Description

We recommend that the Commission evaluate existing prescriptive values and performance modeling assumptions to determine if they reflect the most reasonable, cost-effective approach.

Benefits

Reviewing the existing prescriptive criteria, and updating them, if necessary, will ensure that the Standards reflect the most up-to-date, cost-beneficial requirements for California.

Environmental Impact

No adverse environmental impact expected.

Type of Change

Compliance Option: if determined that the current prescriptive criteria in Package D should be revised, this proposed measure would change the existing prescriptive compliance alternatives in Package D of Section 151 [Tables 1-Z1 through 1-Z16].

Whether the Standards, ACM manual, compliance forms, etc., require modification will depend upon any new criteria developed as a result of this proposed measure.

Measure Availability and Cost

No additional costs or availability limitations are anticipated at this time.

Useful Life, Persistence and Maintenance

This proposed measure would have no impact on the life, frequency of replacement, or maintenance procedures of fenestration.

Performance Verification

No additional performance verification or commissioning measures beyond what currently exists in the Standards are expected.

Cost Effectiveness

This measure has been proposed to ensure that the Standards remain cost-effective.

Analysis Tools

Energy savings and peak electricity demand reductions attributable to this proposed measure can be estimated using various building simulation tools, such as MICROPAS and various DOE-2 based simulation tools.

Relationship to Other Measures

This measure should be considered in conjunction with our proposed recommendation that additional prescriptive compliance options be developed for homes designed and built with higher glazing areas than what is currently allowed in Package D.

Bibliography and Other Research

For comparison, we recommend reviewing the prescriptive requirements of the 2000 IECC (chapter 5). The IECC contains the current, nationally accepted model building energy efficiency standards (as certified by the US Department of Energy).